

# Installation guide VAQ E

Before installing read this guide first



# Introduction

## The operation of the Quooker VAQ E

The Quooker system consists of a small tank under the sink which is connected to the Nordic boiling-water tap or the Fusion tap. The tank is vacuum-insulated and is connected to the cold water supply via an inlet combination. Inside the tank the water is heated electrically to approx. 110°C and is kept at this temperature. When boiling water is drawn off, cold water flows into the tank at the same time and is heated automatically. If the entire content of boiling water is used in one go, the heating-up time is ca. 10 minutes (PRO3-VAQ E) to 15 minutes (PRO7-VAQ E).

Before the water leaves the tank it is purified by the HiTAC® water filter (High Temperature Activated Carbon). The Nordic boiling-water tap and the Fusion tap are insulated and are fitted with a childproof push-and-turn handle (see 'Tips for use' for instructions). When the tap handle is touched an light ring lights up to alert the user that it is a boiling-water tap. The Nordic boiling-water tap is also height-adjustable.

The Quooker has been fitted with various safety features. Nevertheless, caution should always be applied when using boiling water – whether dispensed from the Quooker or otherwise. Children should not use the tap unattended and people not familiar with the tap should be advised on how to use it properly.

## Installation, maintenance and warranty

The Quooker can be installed in almost any location provided there is sufficient space for the tank as well as a 13 amp socket, water supply and waste.

The Quooker tank must be fitted in an upright position. If the tank is to be fitted in a cabinet with drawers, an optional bracket can be purchased to suspend the tank from the cabinet wall.

The HiTAC® filter should be changed once every five years. If you live in a hard water area, lime scale will collect at the bottom of the tank and will need to be cleaned out by one of our engineers approximately once a year depending on usage and the quality of the water in your area. Alternatively, you can install a suitable descaling system. This system must not reduce the pH level of the water below 7 or remove all the minerals from the water (reverse osmosis) as this can be harmful to the tank and would void the warranty. Suitable descaling systems are also available directly from Quooker as an optional extra.

The warranty period is two years and covers supply of parts only. It does not cover labour costs or issues resulting from insufficient lime scale maintenance.

## Technical specifications

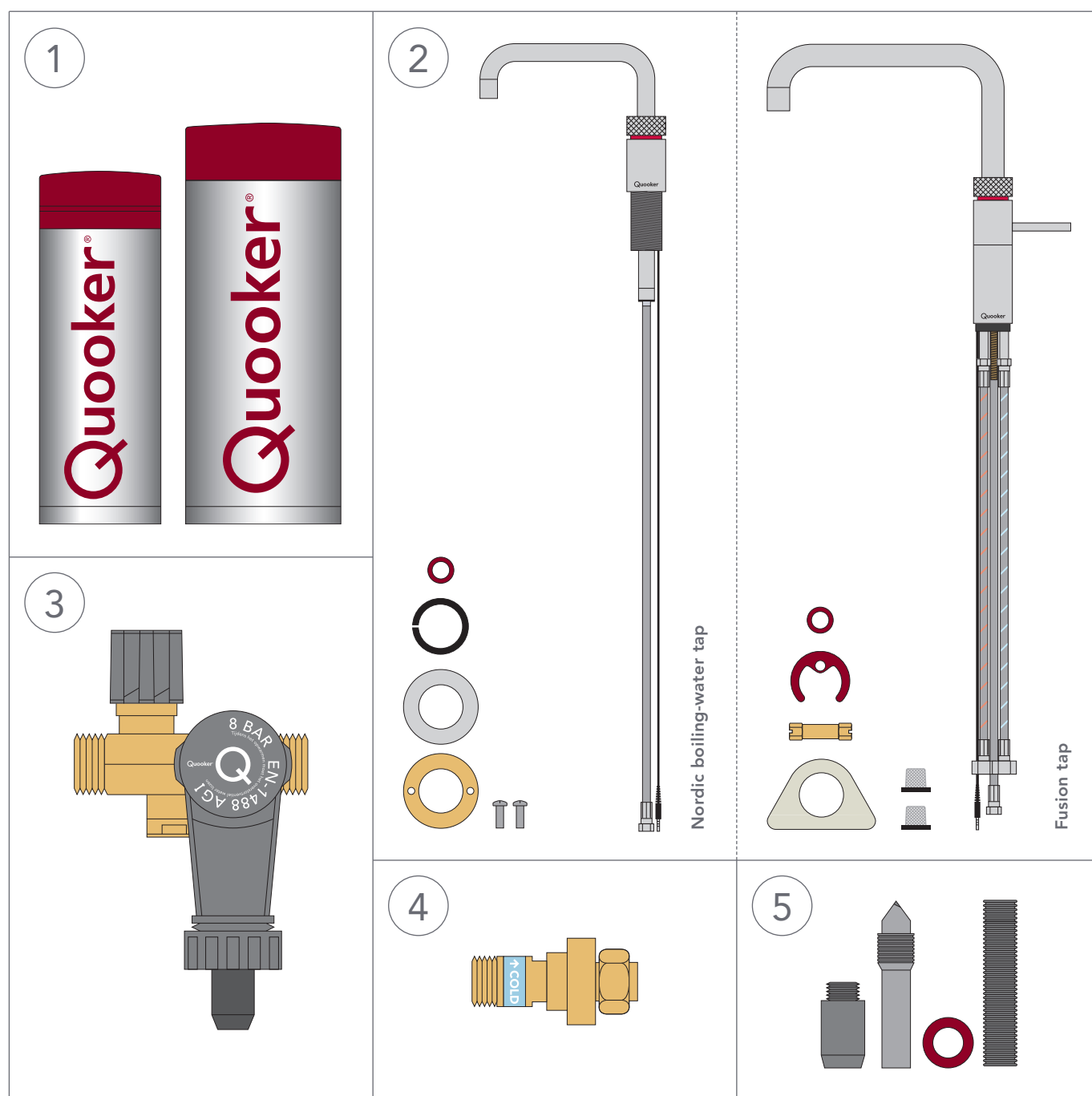
Tank	PRO3-VAQ E	PRO7-VAQ E
Voltage	230 V	230 V
Wattage*	1600 W	2900 W
Capacity	3 litres	7 litres
Heating-up time*	10 minutes	15 minutes
Standby power consumption*	10 W	10 W
Tank height	40 cm	47 cm
Total height requirement	49 cm	55 cm
Tank diameter	15 cm	20 cm
Min. mains pressure	200 kPa (2 bar)	200 kPa (2 bar)
Max. mains pressure	600 kPa (6 bar)	600 kPa (6 bar)
Max. working pressure	800 kPa (8 bar)	800 kPa (8 bar)
Mounting bracket optional	yes	yes
Safety features	- maximum temperature fuse - pressure relief valve 800 kPa (8 bar)	
Water shut-off valve	electric	
HiTAC® water filter	High Temperature Activated Carbon	

\*These are average values.

Tap	Nordic boiling-water tap	Fusion and mixer tap
Tap hole size	32 mm	35 mm
Recomm. temp. hot water	-	60°C
Tap base plate optional	yes	yes

# Contents of the pack

1. PRO3-VAQ E or PRO7-VAQ E tank
2. Nordic boiling-water tap, small washers, centring ring, metal ring, brass sink nut and two screws  
or Fusion tap, small washers, brass fixing plate, fixing nut, white tap support (for thin work tops) and two inlet hose screens
3. Quooker inlet combination
4. Pressure reducing valve
5. PVC connector, Quooker drill bit, large fibre washers and waste hose  
- Brochure, installation guide and 'Tips for use'



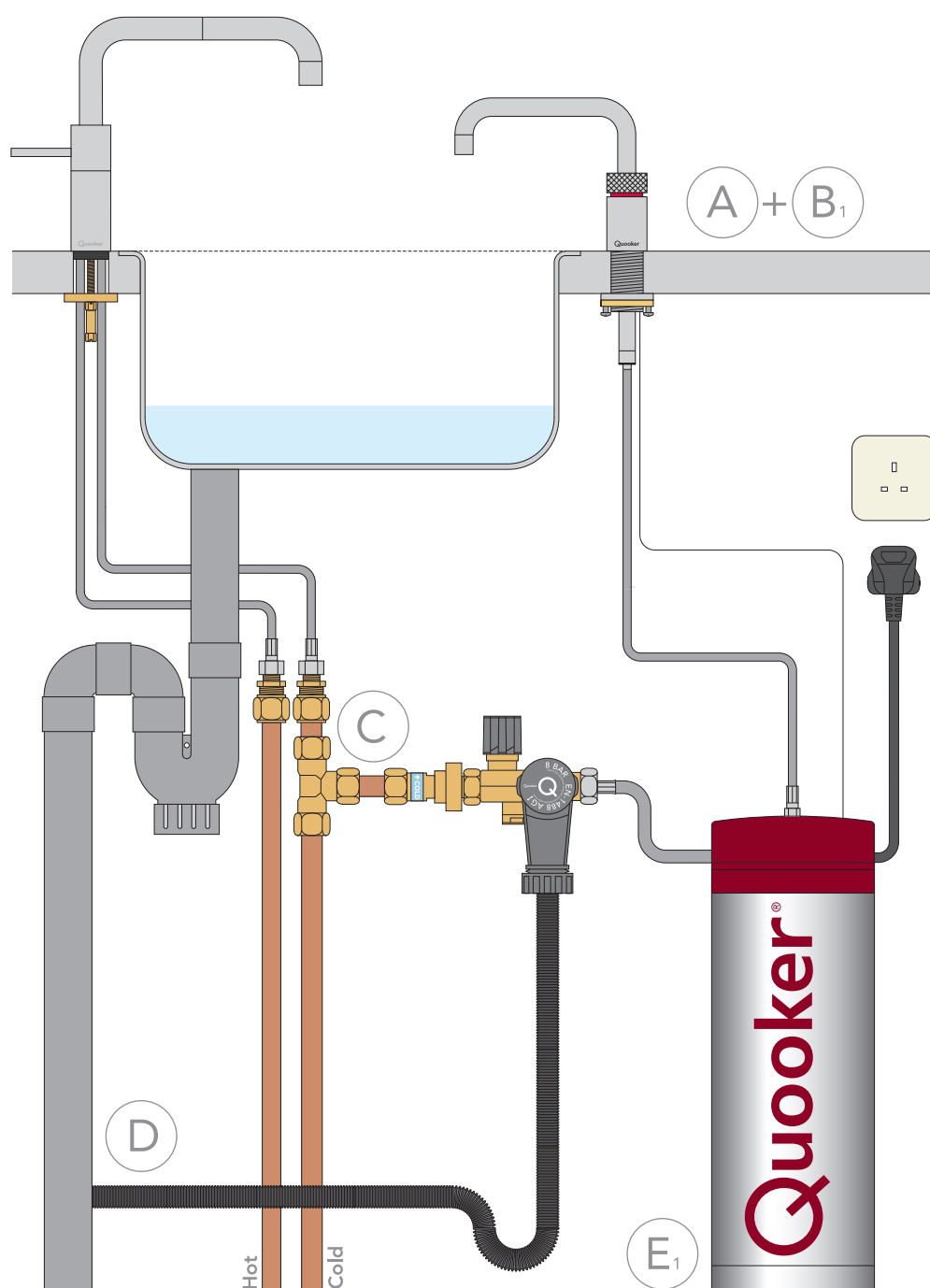
# Overview of Nordic tap installation

It is recommended that you install the Quooker in the following order:

- A. Drilling hole
- B1. Fitting Nordic tap
- C. Connecting water
- D. Connecting waste
- E1. Connecting tank with Nordic tap

NOTE: Bear in mind that the tank, inlet combination, mixing valve and socket must remain accessible for servicing.

For an overview of the Fusion tap installation, please refer to the next page.

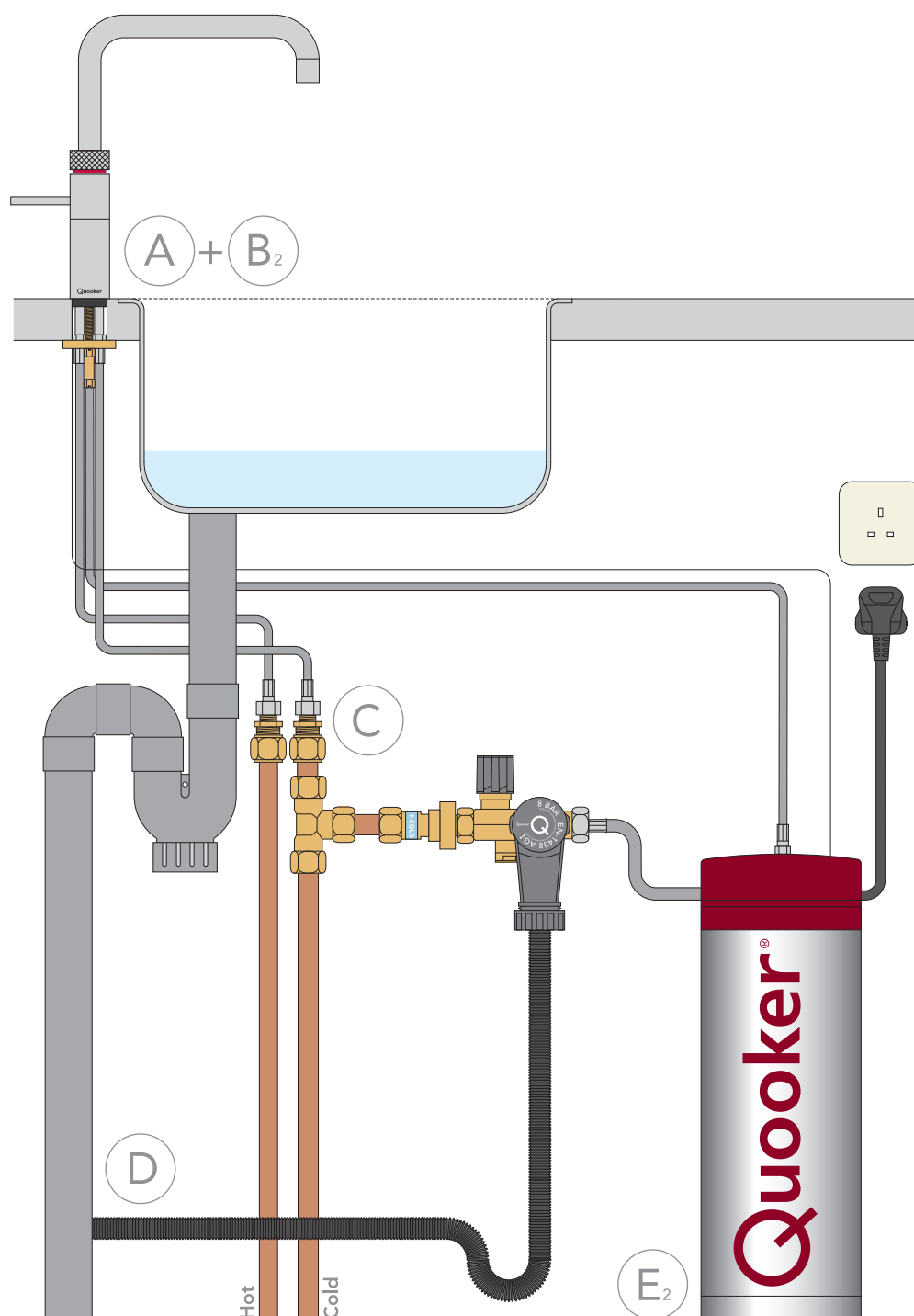


# Overview of Fusion tap installation

It is recommended that you install the Quooker in the following order:

- A. Drilling hole
- B2. Fitting Fusion tap
- C. Connecting water
- D. Connecting waste
- E2. Connecting tank with Fusion tap

NOTE: Bear in mind that the tank, inlet combination, mixing valve and socket must remain accessible for servicing.



# A

## Drilling hole

- NOTE: The tap hole for the Nordic boiling-water tap should be 32 mm in diameter. The Fusion tap hole should be 35 mm in diameter.
- For drilling the hole for the Fusion tap, see step 3 below.
- The Nordic boiling-water tap should ideally be positioned at the corner of the sink to enable use above the sink or the work top.
- NOTE: It must be possible to move the spout of the Nordic boiling-water tap freely up and down. When the spout is in its lowest position it projects ca. 25 cm below the work top. Bear this in mind when fitting the inlet combination, sockets and the like.
- The Nordic boiling-water tap has a reach of 16 cm from the centre of the tap hole – keep this in mind when choosing the tap position.

### 1 Select position boiling-water tap

Select a suitable position for the Nordic boiling-water tap based on the type of sink and position of the mixer tap.

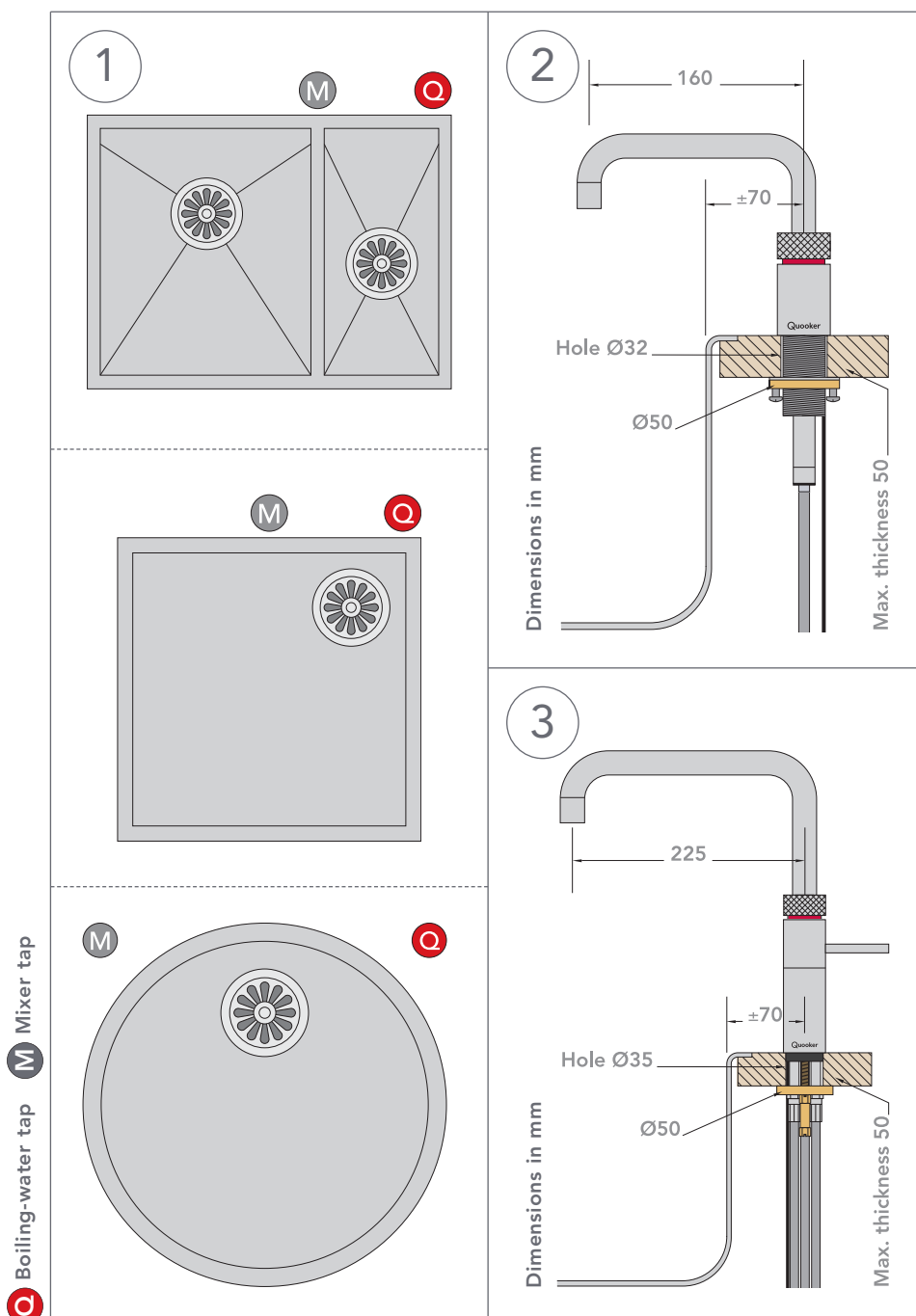
### 2 Drilling hole for boiling-water tap

Using the correct drill bit, drill a hole of 32 mm through the work top for the Nordic boiling-water tap.

NOTE: For the Nordic mixer tap please refer to the separate guide. In the case of a hole of 35 mm or larger, use the centring ring provided.

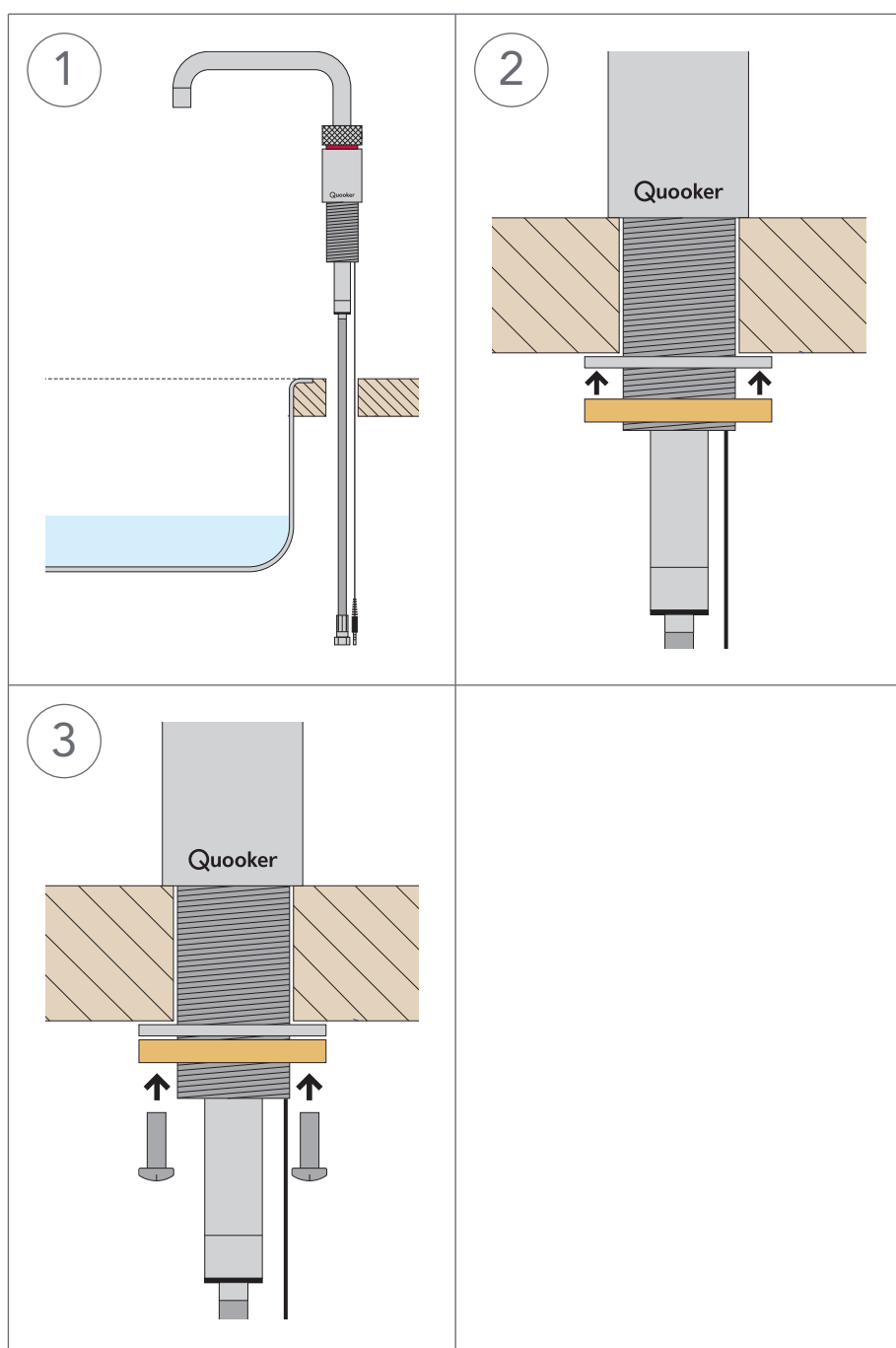
### 3 Drilling hole for Fusion tap

Select a suitable position for the Fusion tap. Using the correct drill bit, drill a hole of 35 mm through the work top.



# B<sub>1</sub> Fitting Nordic tap

- NOTE: The total length of the hose between the boiling-water tap and tank is only 70 cm. The tank must therefore be fitted close to the tap. Extension hoses are available in different lengths but are not normally required.
- NOTE: The small fibre washers supplied with the tap rings are not required yet at this point. One will be used for connecting the tap and tank hose (see section E), the second one is a spare.



## 1 Tap through work top

Push the tap through the hole in the work top. NOTE: When fitting the tap in a 32 mm hole, the black plastic ring needs to be removed from the tap first.

## 2 Securing the tap

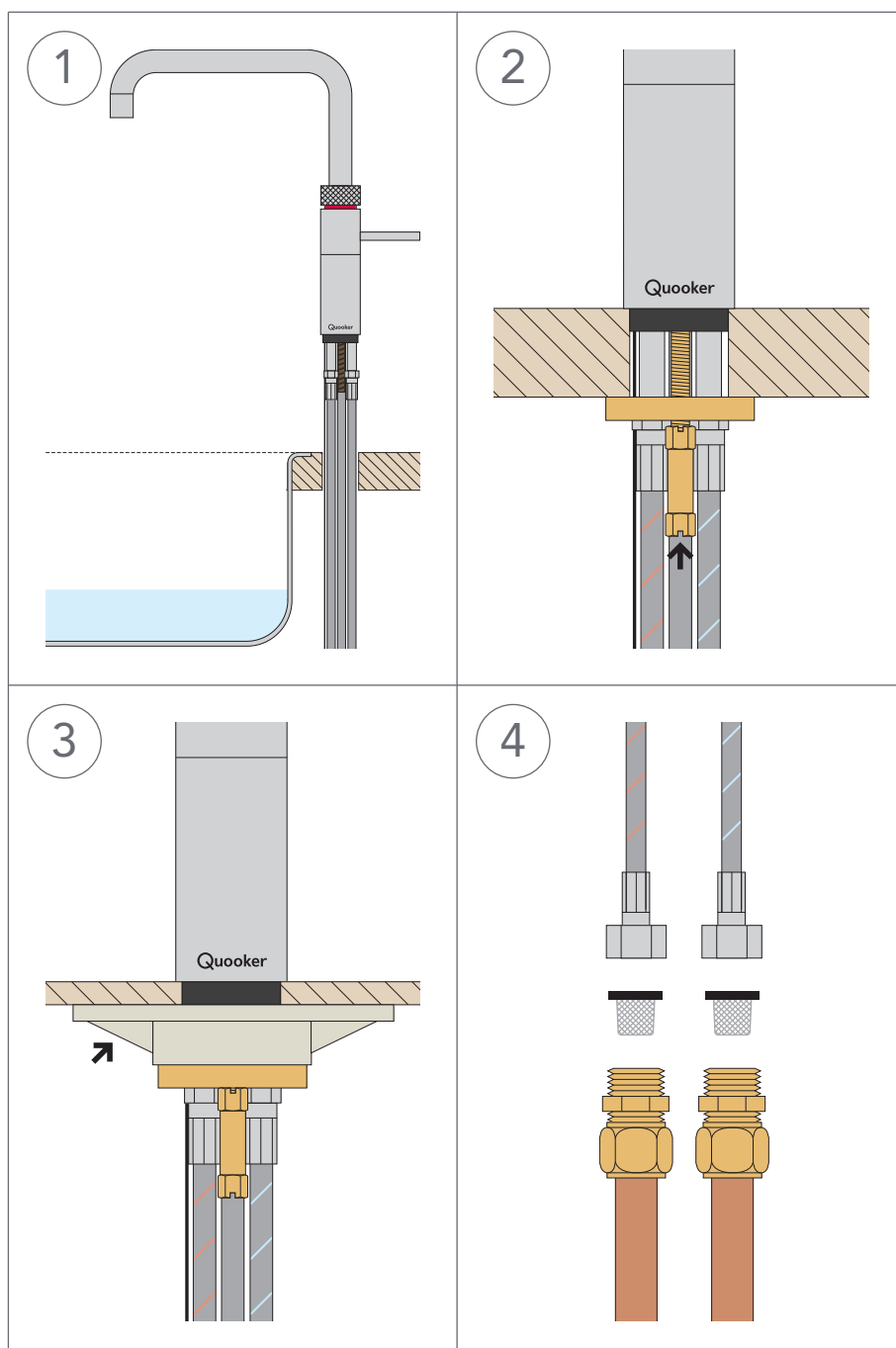
Set the tap to the desired position and secure it with the metal ring and screw ring supplied.

## 3 Securing tap screws

Tighten the screws in the screw ring.



# B<sub>2</sub> Fitting Fusion tap



## 1 Tap through work top

Push the tap through the hole in the work top.

## 2 Securing tap

Position the brass fixing plate around the hoses. Screw the fixing nut onto the tap thread. Adjust the position of the tap to ensure that the Quooker logo is facing the user. When the handle is in the cold position, it will be parallel to the edge of the work top. Tighten the fixing nut with a pipe wrench, socket wrench or spanner.

## 3 Fitting to thin work top

When fitting to a thin work top, use the white tap support underneath the brass fixing plate.

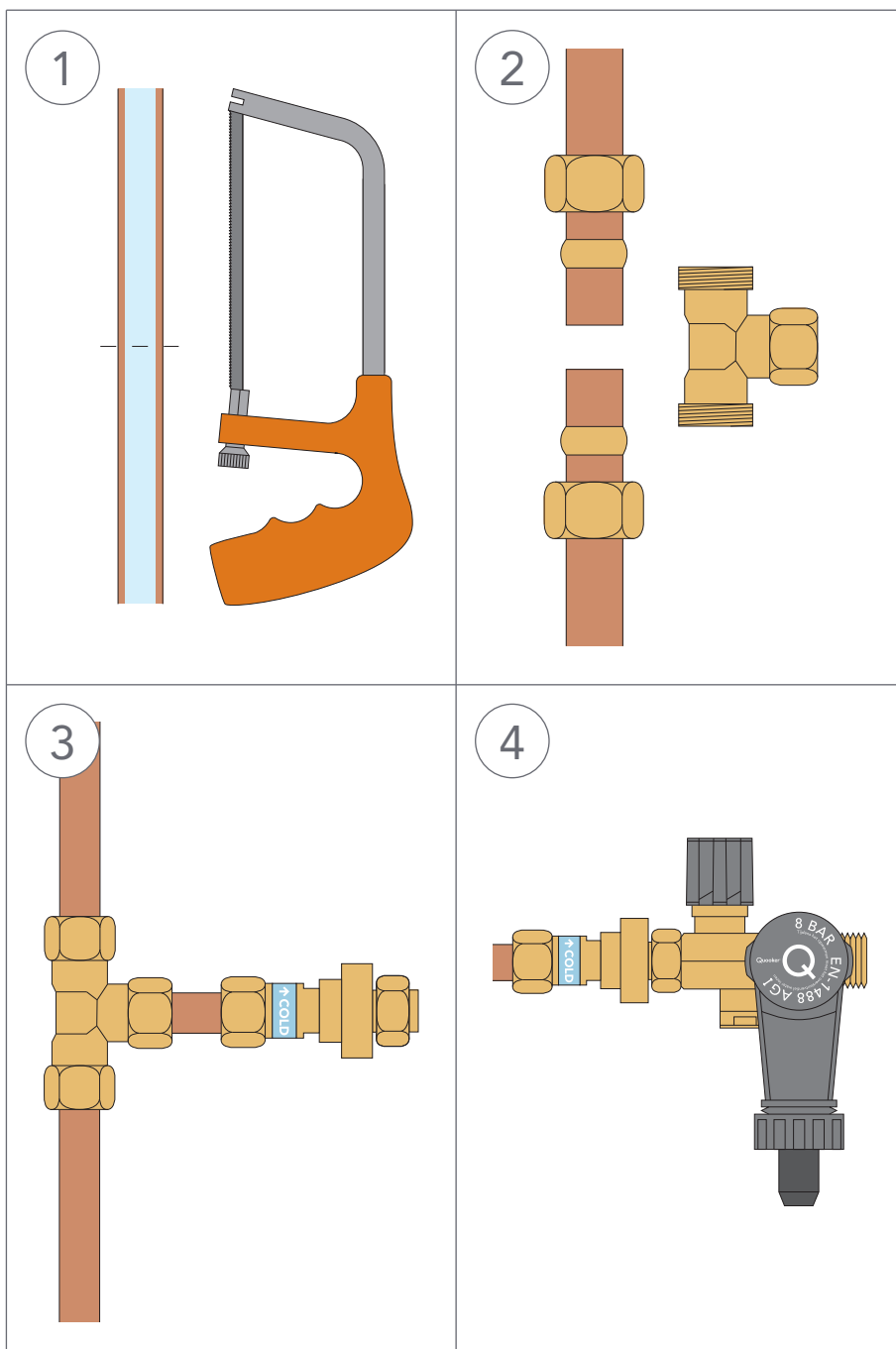
## 4 Connecting hoses

Insert the inlet hose screens and connect the hot and cold water inlet hoses to the mains.

# C

## Connecting water

- NOTE: The VAQ E operates under mains water pressure and must always be fitted with the supplied inlet combination and pressure reducing valve.
- The Nordic boiling-water tap or the Fusion tap must be installed according to the locally applicable regulations.
- The inlet combination will release drips of expansion water while the water in the tank is heating up in order to regulate the pressure inside the tank.
- Position the inlet combination as high as possible to create a sufficient height distance between the inlet combination and the point where the waste hose connects to the waste pipe. This is necessary to allow the expansion water to flow away and to prevent water from backing up from the waste pipe (see the figure at step D4).



### 1 Cutting through cold water pipe

Close the main shut-off valve. Cut through the cold water pipe at a suitable point.

### 2 Fitting T-joint

Fit a T-joint (not supplied) between the pipe sections.

### 3 Fitting pressure reducing valve

Connect the pressure reducing valve to the T-joint with a piece of copper piping (Ø 15mm). NOTE: The pressure reducing valve must be fitted in the correct direction (see image).

### 4 Fitting the inlet combination

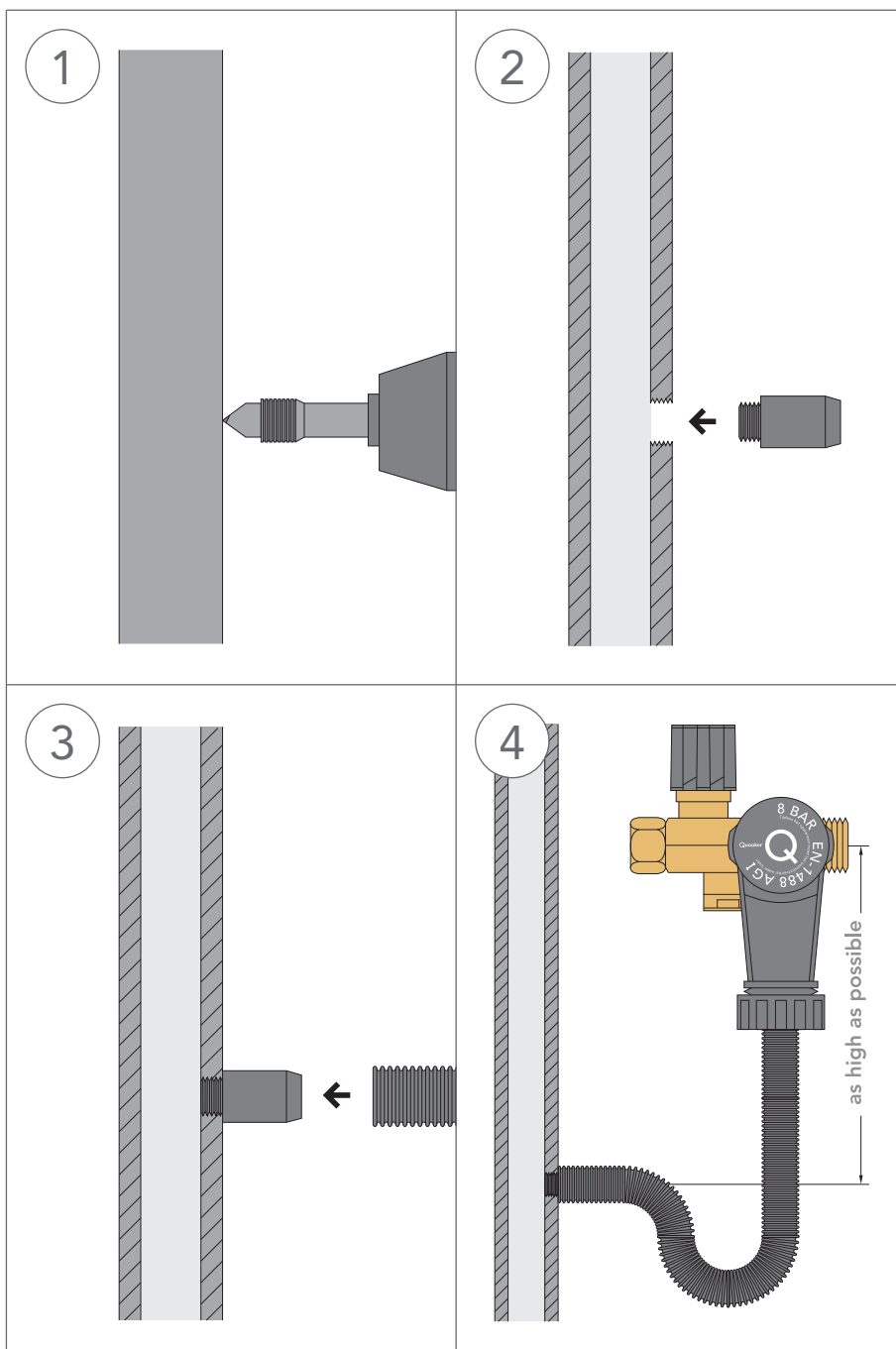
Connect the inlet combination to the pressure reducing valve. The inlet combination can be fitted in any direction, but the grey funnel must always be pointing straight downwards. Close the stop valve on the inlet combination, open the main shut-off valve and check for leaks.

# D

## Connecting waste

The Quooker tank releases expansion water via the inlet combination which is fed into the grey funnel. The funnel is connected to the waste pipe via the supplied waste hose. The drilling kit, also supplied, can be used to make a connection to the waste pipe.

It is important to keep the height distance between the inlet combination and the connection to the waste pipe as large as possible to prevent waste water from flowing back.



### 1 Drilling hole

Using the drill bit supplied, drill and tap in one operation a threaded hole in the waste pipe. Drill slowly so that the PVC does not melt. Turn back anti-clockwise to preserve the thread.

### 2 Fit connector

First try to screw the PVC connector in the hole before fitting permanently with PVC glue.

### 3 Connect hose to waste pipe

Slide the waste hose over the PVC connector.

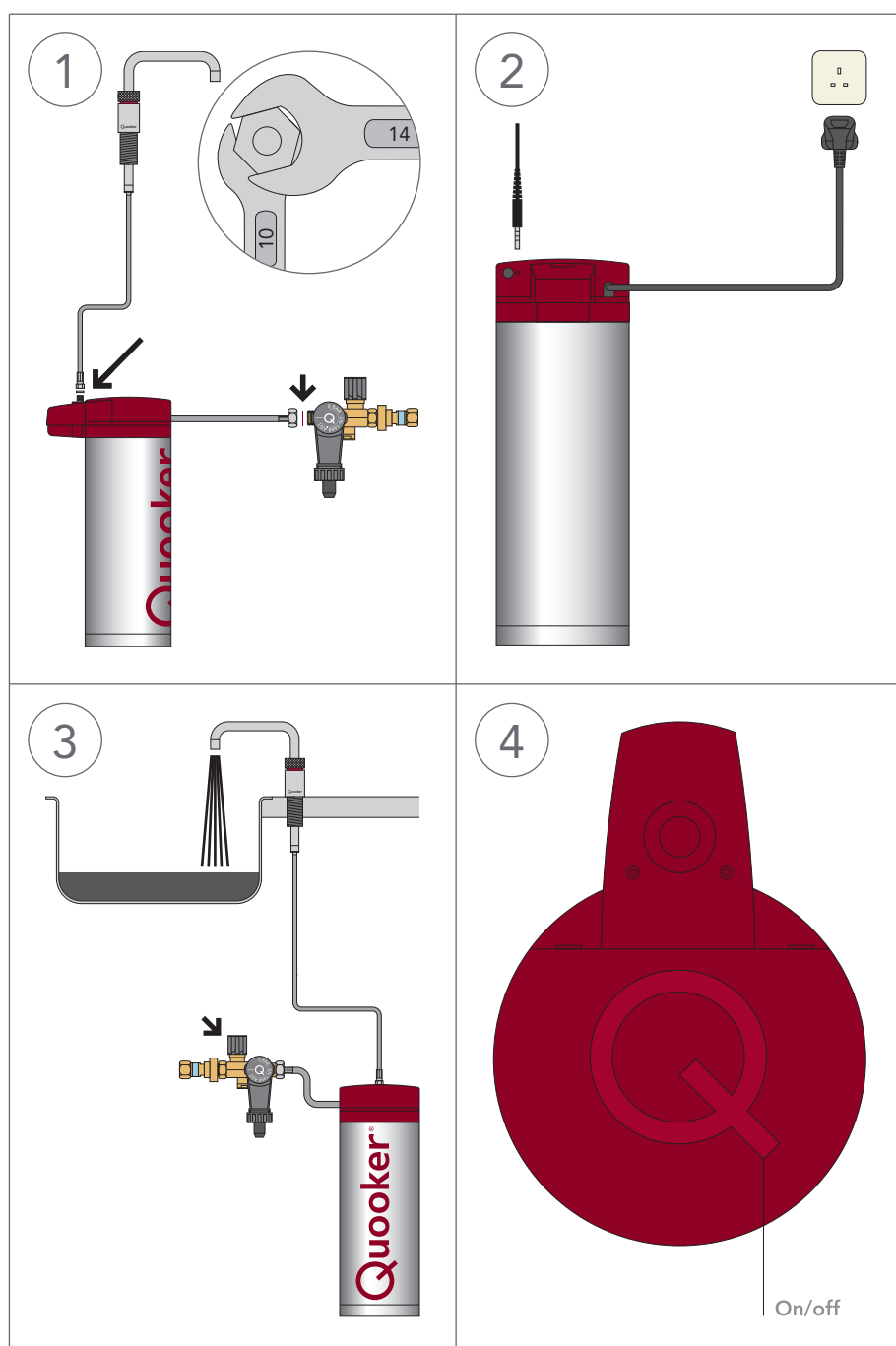
### 4 Connect hose to inlet combination

Create a u-bend (or loop) in the hose and connect it to the funnel of the inlet combination. The u-bend will create a water lock to block smells from the waste pipe. As the water is being heated, the inlet combination will release drips of water into the grey funnel. The open funnel is required to prevent pressure build-up.

# E<sub>1</sub>

## Connecting tank with Nordic tap

- The Quooker tank is supplied with a UK 3 pin plug and requires a standard 13 amp earthed socket.
- If the mains lead is damaged it should be replaced by the manufacturer, their agent or a qualified technician to prevent hazard.
- The light ring on the boiling-water tap will light up to indicate when the water is being heated inside the tank. It will also light up when the tap is being touched to indicate that it is a boiling-water tap.
- The Q-shaped button on top of the tank is the on/off switch. Once the water is up to temperature the light on the tank will fade in and out.
- Ensure that the tank has sufficient height clearance to avoid pinching the hose.
- Do not use any other washers or sealants than the ones supplied.



### 1 Connecting tank

Place the tank in position and connect the inlet hose to the inlet combination with the large fibre washer supplied. Connect the tap hose to the fitting at the top of the tank using the small washer and size 10 and 14 spanners.

### 2 Electrical connection

Connect the boiling-water tap by plugging the LED cable into the hole provided at the back of the tank cover. Connect the tank to the socket. Switch the socket on but not the tank yet.

### 3 Filling tank

Open the Nordic boiling-water tap and the stop valve on the inlet combination. Check for leaks. Flush the tank through until the water is clear. Black water will flow out initially. This is Norit carbon from the filter and completely harmless.

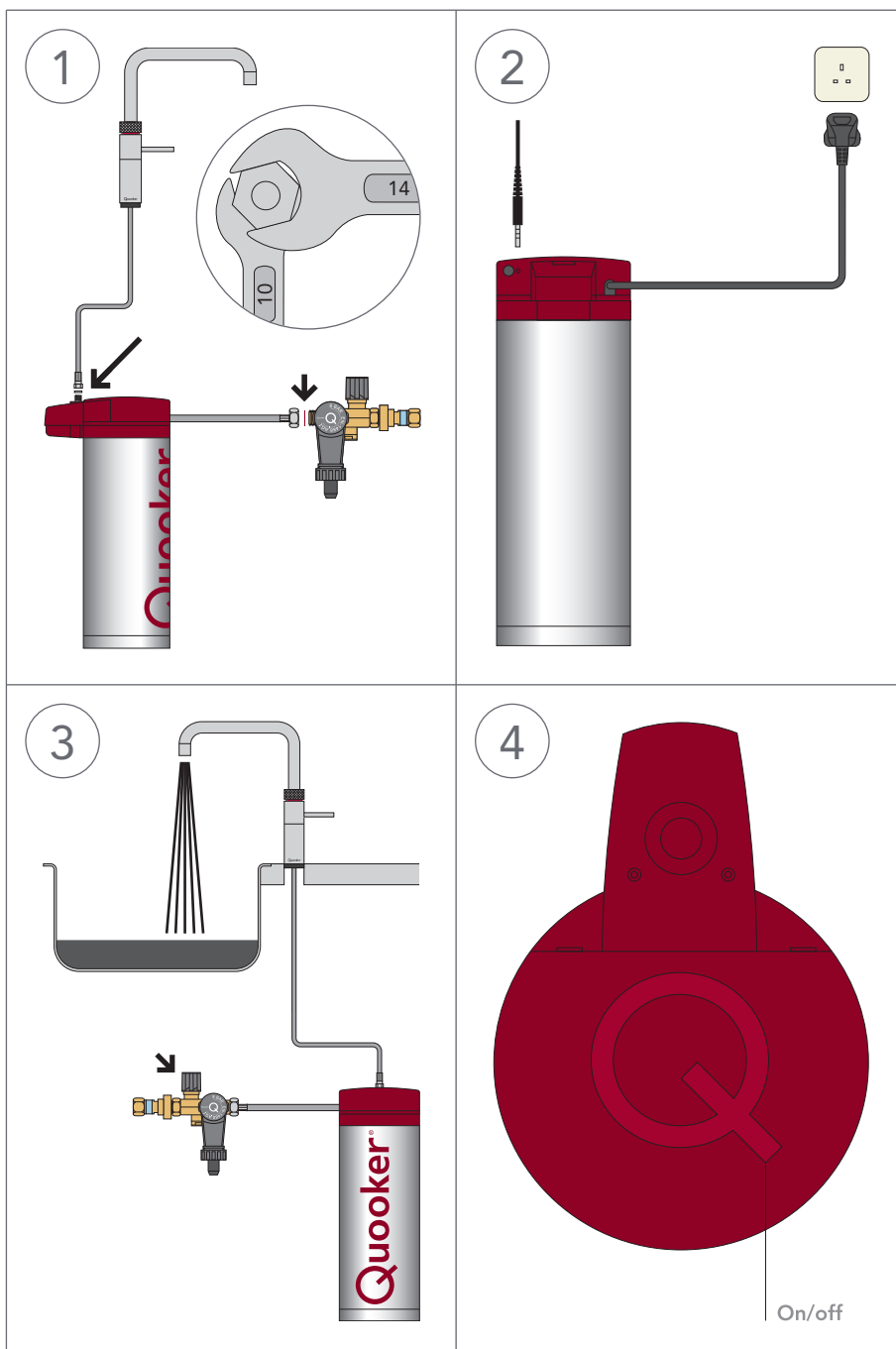
### 4 Switching on tank

Switch on the tank. After the water has heated up, the entire content of the Quooker must be flushed out once before use.

# E<sub>2</sub>

## Connecting tank with Fusion tap

- The Quooker tank is supplied with a UK 3 pin plug and requires a standard 13 amp earthed socket.
- If the mains lead is damaged it should be replaced by the manufacturer, their agent or a qualified technician to prevent hazard.
- The light ring on the Fusion tap will light up to indicate when the water is being heated inside the tank. It will also light up when the tap is being touched to indicate that it is a boiling-water tap.
- The Q-shaped button on top of the tank is the on/off switch. Once the water is up to temperature the light on the tank will fade in and out.
- Ensure that the tank has sufficient height clearance to avoid pinching the hose.
- Do not use any other washers or sealants than the ones supplied.



### 1 Connecting tank

Place the tank in position and connect the inlet hose to the inlet combination with the large fibre washer supplied. Connect the tap hose to the fitting at the top of the tank using the small washer and size 10 and 14 spanners.

### 2 Electrical connection

Connect the boiling-water tap by plugging the LED cable into the hole provided at the back of the tank cover. Connect the tank to the socket. Switch the socket on but not the tank yet.

### 3 Filling tank

Open the boiling-water handle (double-push-and-turn) and the stop valve on the inlet combination. Check for leaks. Flush the tank through until the water is clear. Black water will flow out initially. This is Norit carbon from the filter and completely harmless.

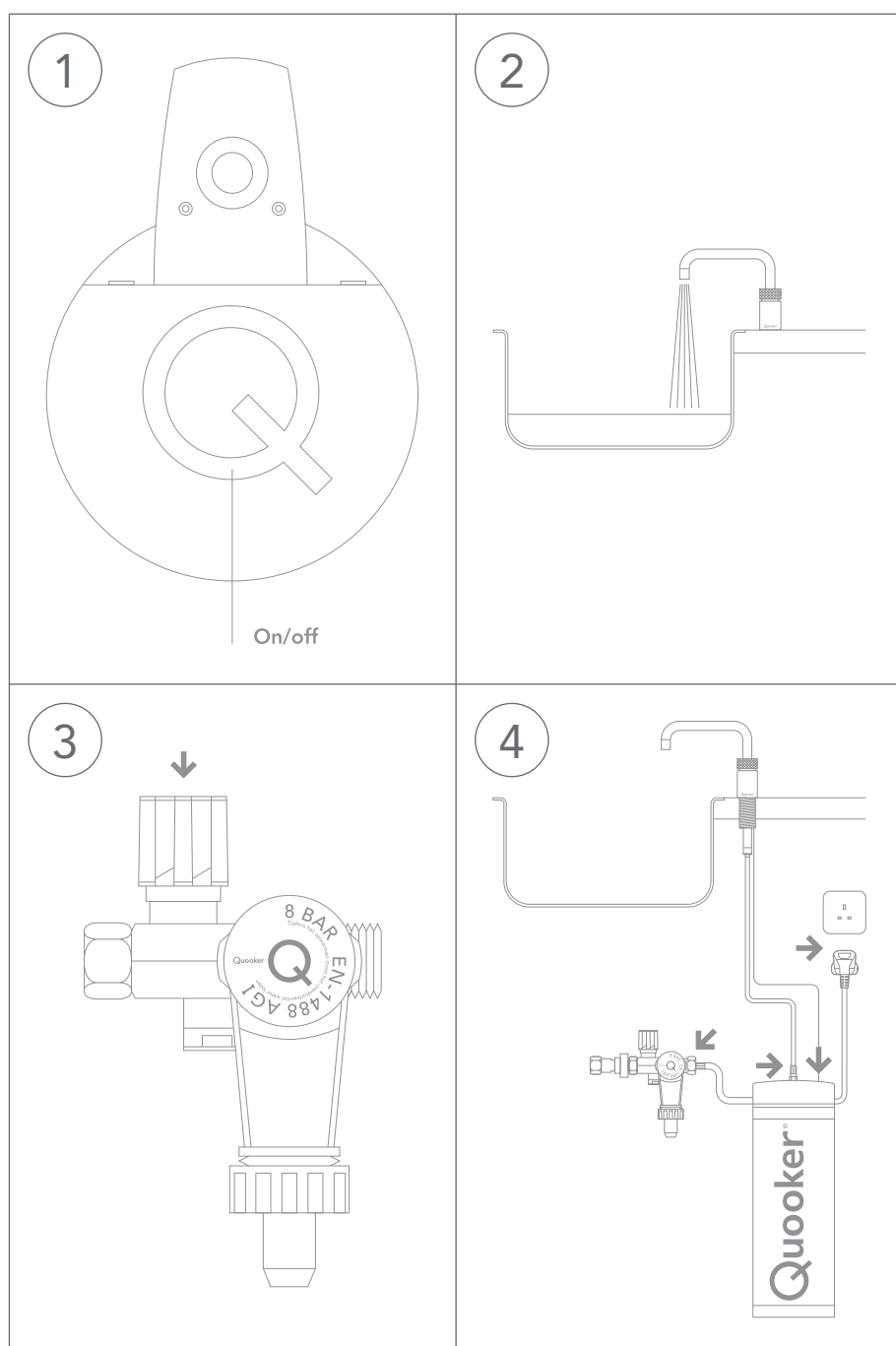
### 4 Switching on tank

Switch on the tank. After the water has heated up, the entire content of the Quooker must be flushed out once before use.

# F

## Disconnecting tank

- In case of service.
- The Q-shaped button on top of the tank is the on/off switch.



### 1 Switching off

Press the on/off switch at the top of the tank to switch it off. Do not unplug the tank from the socket yet.

### 2 Draining

Open the boiling-water tap or the boiling-water handle of the Fusion tap and leave the water running until it is cold. Then close the tap again.

### 3 Isolating

Close the main shut-off valve or the stop valve on the inlet combination (small grey knob). Check that the Quooker is depressurized by opening the Nordic boiling-water tap or the boiling-water handle of the Fusion tap again. If it is depressurized, no water should flow out of it.

### 4 Disconnecting

Unplug the tank from the socket and the LED cable from the back of the tank cover. Disconnect the hoses and remove the tank.

# Declaration of conformity

Quooker B.V., Staalstraat 13, 2984 AJ Ridderkerk (The Netherlands) herewith declares, on our own responsibility, that the products Quooker PRO3-VAQ E and PRO7-VAQ E are in accordance with the conditions of the following directives:

- 2006/95/EC Low voltage Directive
- 2004/108/EC Electromagnetic Compatibility Directive
- 97/23/EG Pressure Equipment Directive

And are in conformity with the following standards:

EN60335-1:2002 + A1:2004 + A11:2004 + A2:2006 + A12:2006 + A13:2008 + A14:2010 + A15:2011

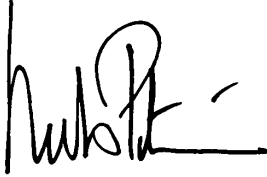
EN60335-2-21:2003 + A1: 2005 + A2:2008 + A12: 2012

EN60335-2-15:2002 + A1: 2005 + A2:2008 + A11:20012 (partly).

EN62233:2008 (Electromagnetic Fields)

The system should not be operated by persons (including children) with diminished mental, physical and sensory capacity.

The Netherlands, Ridderkerk, 28/11/2014

A handwritten signature in black ink, appearing to read 'Niels Peteri', with a stylized flourish at the end.

Niels Peteri, Director



[www.quooker.co.uk](http://www.quooker.co.uk)